

CLAIMS

I claim:

1. A bearing assembly comprising:

an inner ring member including a convex inner race surface having opposing axial edges;

an outer ring member encircling said inner ring member and defining a raceway
5 space therebetween, said outer ring member including at least two axially spaced outer race surfaces defining a lubrication groove therebetween;

a flange axially outwardly spaced from each outer race surface extends radially inwardly past said outer race surfaces;

a plurality of rollers disposed in said raceway space between said flanges, each of
10 said rollers including a concave radial race surface interposed between axially spaced radial race surfaces, each of said axially spaced radial race surfaces engaging one of said axially spaced outer race surfaces of said outer ring member and said concave radial race surface engaging said inner ring member convex inner surface;

a seal spaced axially outwardly from each axial end of said rollers and disposed
15 between said inner and outer ring members to seal said rollers between said inner and outer ring members; and

a collar fixed to each axial end of said inner ring member to unitize said bearing assembly.

2. The bearing assembly as in claim 1, in which each of said flanges includes an axial race surface engageable with an end of said rollers.

3. The bearing assembly as in claim 1, in which a hub extension extends axially outwardly from each axial edge of said inner race surface , and each of said collars is fixed to one of said hub extensions.

4. The bearing assembly as in claim 3, in which each of said collars is press fit onto one of said hub extensions.

5. The bearing assembly as in claim 1 in which said lubrication reservoir is only open radially inwardly.

6. The bearing assembly as in claim 1, in which at least one of said flanges includes and radially inwardly opening groove and at least one of said collars includes a circumferential groove opening toward said radially inwardly opening groove of said at least one of said flanges, and said seal includes a outer radial edge engaging said radially inwardly opening groove of said at least one of said flanges and a inner radial edge engaging said circumferential groove.

7. The bearing assembly as in claim 1, in which a steering stem of a motorcycle steering assembly extends axially through said inner ring member.

8. The bearing assembly as in claim 1, in which each of said flanges is formed as an integral part of said outer ring member.
9. The bearing assembly as in claim 1, in which a lubricant is disposed in said lubrication reservoir.
10. The bearing assembly as in claim 1, in which said axially spaced radial race surfaces of said rollers are cylindrical.
11. The bearing assembly as in claim 1, in which said plurality of rollers are arranged in single row.

12. A bearing assembly comprising:

an inner ring member including a convex inner race surface having opposing axial edges;

an outer ring member encircling said inner ring member and defining a raceway space therebetween, said outer ring member including at least two axially spaced outer race surfaces defining a lubrication groove therebetween;

a flange axially outwardly spaced from each outer race surface extends radially inwardly past said outer race surface, each of said flanges including an axially inwardly facing race surface;

a plurality of rollers disposed in said raceway space between said flanges, each of said rollers including a concave radial race surface interposed between axially spaced radial race surfaces, each of said axially spaced radial race surfaces engaging one of said axially spaced outer race surfaces of said outer ring member and said concave radial race surface engaging said inner ring member convex inner surface;

a seal spaced axially outwardly from each axial end of said rollers and disposed between said inner and outer ring members to seal said rollers between said inner and outer ring members; and

a collar fixed to each axial end of said inner ring member to unitize said bearing assembly.

13. The bearing assembly as in claim 12, in which each of said flanges is formed as an integral part of said outer ring member.

14. The bearing assembly as in claim 12, in which a hub extension extends axially outwardly from each axial edge of said inner race surface , and each of said collars is fixed to one of said hub extensions.

15. The bearing assembly as in claim 14, in which each of said collars is press fit onto one of said hub extensions.

16. The bearing assembly as in claim 12 in which said lubrication reservoir is only open radially inwardly.

17. The bearing assembly as in claim 12, in which at least one of said flanges includes a radially inwardly opening groove and at least one of said collars includes a circumferential groove opening toward said radially inwardly opening groove of said at least one of said flanges, and said seal includes a outer radial edge engaging said radially inwardly opening groove of said at least one of said flanges and a inner radial edge engaging said circumferential groove.

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18. The bearing assembly as in claim 12, in which a steering stem of a motorcycle steering assembly extends axially through said inner ring member.

19. The bearing assembly as in claim 12, in which a lubricant is disposed in said lubrication reservoir.

20. The bearing assembly as in claim 12, in which said axially spaced radial race surfaces of said rollers are cylindrical.

21. The bearing assembly as in claim 12, in which said plurality of rollers are arranged in single row.

22. A bearing assembly comprising:

an inner ring member including a convex inner race surface having opposing axial edges;

an outer ring member encircling said inner ring member and defining a raceway
5 space therebetween, said outer ring member including at least two axially spaced outer race surfaces defining a lubrication groove therebetween;

a flange axially outwardly spaced from each outer race surface extends radially inwardly past said outer race surfaces to capture a roller; and

a plurality of rollers disposed in said raceway space between said flanges in a
10 single row, each of said rollers including a concave radial race surface interposed between axially spaced radial race surfaces, each of said axially spaced radial race surfaces engaging one of said axially spaced outer race surfaces of said outer ring member and said concave radial race surface engaging said inner ring member convex inner surface.